

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A self-centralizing spearhead assembly for a tool passed through a drill pipe having an inner surface, comprising:

a base having a longitudinal axis and an outer surface composed of a plurality of contiguous surface portions where mutually adjacent surface portions lie in, or have, relatively inclined planes or relatively inclined tangential planes, a first of said surface portions lying in a first plane perpendicular to said longitudinal axis and a second of said surface portions lying in a second plane inclined at an acute angle to the first plane, the first plane being contiguous with the second plane;

a slot formed in one of said base and opening onto said plurality of surface portions;

a spearpoint having a proximal end located in said slot and pivotally coupled to said base and a distal end projecting from said slot and beyond said surface portions; and

a spearpoint positioning system for urging said spearpoint toward one of a plurality of angularly spaced positions, respective ones of said positions characterized by said spearpoint extending perpendicular to the plane or tangential plane of an adjacent surface portion, wherein a first of said positions is a central position where said spearpoint lies parallel to said longitudinal axis when said spearpoint extends perpendicular to said first plane and a second of said positions is an inclined position where said spearpoint is pivoted through an angle θ from the longitudinal axis when the spearpoint extends perpendicular to the second plane; and

wherein said spearpoint is configured to contact the inner surface of the drill pipe prior to pivoting through the angle θ from the longitudinal axis, whereby the spearpoint is self maintained in the central position while disposed in the drill pipe.

2. (Original) The assembly according to claim 1, wherein said spearpoint positioning system comprises a plate through which said spearpoint extends, said plate retained on said spearpoint in a position where said plate contacts said outer surface.

3. (Original) The assembly according to claim 2, wherein said spearpoint positioning system further comprises a biasing device which urges said spearpoint into said one of a plurality of positions and holds said spearpoint in said one of a plurality of positions.

4. (Original) The assembly according to claim 3, wherein said biasing device biases said plate against said outer surface.

5. (Canceled)

6. (Canceled)

7. (Currently Amended) The assembly according to ~~claim 6~~ claim 2, wherein said plurality of surface portions comprises a ~~second~~ third surface, said ~~second~~ third surface formed about said longitudinal axis, whereby when said plate lies against said ~~second~~ third surface, said spearpoint is in a ~~second~~ third position extending substantially perpendicular to said longitudinal axis.

8. (Canceled)

9. (Currently Amended) The assembly according to ~~claim 8~~ claim 1, wherein said ~~second~~ third surface is configured so that when said spearpoint is in said ~~second~~ third position, said spearpoint extends at substantially 45° to said longitudinal axis.

10. (Currently Amended) The assembly according to ~~claim 5~~ claim 2, wherein said plate has a peripheral edge which is substantially co-extensive with a peripheral edge of said first surface when said plate is parallel to said first surface.

11. (Currently amended) The assembly according to claim 7, wherein said plate has a peripheral surface which extends to, or beyond, said ~~second~~ third surface when said plate is parallel to said first surface.

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (New) The assembly according to claim 1 further comprising an axial hole formed in the base, the axial hole being in fluid communication with said slot, wherein a fluid can flow in an axial direction through said base via said slot and said axial hole.

25. (New) The assembly according to claim 1 wherein said slot forms two spaced apart arms in said base and wherein said proximal end of said spearpoint is located between and pivotally coupled to said arms.